

**ecology and environment, inc.**

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

PRELIMINARY ASSESSMENT

EXECUTIVE SUMMARY

TO: Colleen Hart, U.S. EPA
FROM: Jim Broderick, FIT *KL for SB*
DATE: September 30, 1991
SUBJECT: Roland Dump, AKA Site #73, Gary, Indiana
IND980500557 F05-9104-107/FIN0168PA

The Roland Dump site, also known as Site #73, is located east of the intersection of Chicago Avenue and Industrial Highway in Gary, Indiana. The site consists of approximately 23 acres and is bordered by the Norfolk and Western, Elgin Joliet and Eastern, and Conrail railroad tracks.

The site is owned by Cliff Roland. Operations began sometime prior to July 25, 1980, when an inspection by the Indiana State Board of Health (ISBH) revealed that a pit that may have been used for sand excavation at one time, was filled with water, and was being utilized as a dump site for demolition debris, refuse, and hazardous wastes. On-site sampling was also conducted by ISBH; analysis of these samples revealed the presence of a number of hazardous substances, including various heavy metals such as lead (5,300 mg/kg), and arsenic (20 mg/kg), and aromatic hydrocarbons such as pyrene (38 mg/kg) and fluoranthene (35 mg/kg). A letter to the site owner dated August 29, 1980, was sent by the Indiana Stream Pollution Control Board ordering that all disposal activities at the Roland Dump site cease.

Subsequent inspections by ISBH on November 14, 1980 and January 8, 1982, revealed that foundry sand was being used as fill at this site, apparently with ISBH approval; no violations were cited in these reports. ISBH stated in the 1982 report that after the pit was filled to

capacity, additional foundry sand must be sent to an approved disposal site.

During an off-site reconnaissance (OSR) conducted by Ecology and Environment, Inc./Field Investigation Team (FIT) on May 20, 1991, two employees were observed on-site; the site appeared to be active. Also, additional debris (tires and railroad tires) that was not previously reported was observed on-site.

File information shows that there have been no past attempts to clean up the site or to restrict the migration of on-site contamination.

Migration of hazardous substances into groundwater is suspected because of the composition of the vadose zone (sand) and the depth to groundwater (four to six feet). No residents within a 4-mile radius of the site are believed to draw drinking water from this sand aquifer in areas that could become contaminated. Residents in the area of the site obtain their drinking water from the Gary-Hobart Water Corporation, which obtains its water from intakes in Lake Michigan.

Migration of hazardous substances from the site to surface water is likely since wetlands lie adjacent to the site. The migration of hazardous substances from the site to the Grand Calumet River is not considered likely because no drainage routes exist.

The potential for air migration of hazardous substances from the site is not considered likely because on-site wastes are buried within the landfill. However, further sampling of the cover material may identify any hazardous materials and result in a potential for migration to air.

There is a low potential for soil exposure to occur because wastes are buried in the landfill and the site is located in an isolated area. However, two workers were observed on-site during the OSR and the site is not fenced.

7399:9

Preliminary Assessment Summary

Site Name: Roland Dump (Site #73)

Address: East of U.S. 12 & Chicago Ave. Intersection


County: Lake

I.D. Number: IND980500557

Priority Assessment: Medium

Assessment Justification: Industrial wastes were dumped illegally at this site. Contamination of shallow groundwater in the area by this site as well as other dumps in the area seems likely.

Recommendation: Site inspection recommended with groundwater sampling if possible.

 POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		I. IDENTIFICATION 01 STATE 02 SITE NUMBER IN D980500557	
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site) Roland Dump (Site # 73)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER East of U.S. 12 & Chicago Ave. Intersection	
03 CITY Gary	04 STATE IN	05 ZIP CODE 46406	06 COUNTY Lake
07 COUNTY CODE 89	08 CONG DIST 01		
09 COORDINATES LATITUDE 41 37 45		LONGITUDE 87 24 45	
10 DIRECTIONS TO SITE (Starting from nearest public road) Site located east of intersection of Chicago Ave. and U.S. 12 (Industrial Highway).			
III. RESPONSIBLE PARTIES			
01 OWNER (If known) Cliff Roland		02 STREET (Business, mailing, residential) P.O. Box 635	
03 CITY East Chicago	04 STATE IN	05 ZIP CODE 46312	06 TELEPHONE NUMBER ()
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)	
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ()
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: ____/____/____ MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 d) DATE RECEIVED: ____/____/____ MONTH DAY YEAR <input checked="" type="checkbox"/> C. NONE			
IV. CHARACTERIZATION OF POTENTIAL HAZARD			
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 12/2/82 MONTH DAY YEAR <input type="checkbox"/> NO 1/9/80		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____	
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input checked="" type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR _____ ENDING YEAR _____ <input checked="" type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED Sludge (Toxic, persistent), oily waste			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION Groundwater (Population, environment)			
V. PRIORITY ASSESSMENT			
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input type="checkbox"/> A. HIGH (Inspection required promptly) <input checked="" type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)			
VI. INFORMATION AVAILABLE FROM			
01 CONTACT George Oliver		02 OF (Agency/Organization) ISBH	
04 PERSON RESPONSIBLE FOR ASSESSMENT Don Daily		05 AGENCY ISBH	06 ORGANIZATION
		07 TELEPHONE NUMBER 1317633-0196	08 DATE 1/26/84 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

1. IDENTIFICATION

01 STATE	02 SITE NUMBER
IN	D980500557

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)	02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)	03 WASTE CHARACTERISTICS (Check all that apply)	
<input checked="" type="checkbox"/> A. SOLID <input checked="" type="checkbox"/> B. POWDER, FINES <input checked="" type="checkbox"/> C. SLUDGE	<input type="checkbox"/> E. SLURRY <input type="checkbox"/> F. LIQUID <input type="checkbox"/> G. GAS	<input checked="" type="checkbox"/> A. TOXIC <input type="checkbox"/> B. CORROSIVE <input type="checkbox"/> C. RADIOACTIVE <input checked="" type="checkbox"/> D. PERSISTENT	<input type="checkbox"/> E. SOLUBLE <input type="checkbox"/> F. INFECTIOUS <input type="checkbox"/> G. FLAMMABLE <input type="checkbox"/> H. IGNITABLE
<input type="checkbox"/> D. OTHER _____ (Specify)	TONS _____ CUBIC YARDS <u>4000</u>	<input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE	
	NO. OF DRUMS _____		

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	400 CY	(Cu.yds.)	Rough estimate
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)


[illegible]

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

TSBH Files

	POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	I. IDENTIFICATION 01 STATE 02 SITE NUMBER <i>IN</i> <i>D980500557</i>
II. HAZARDOUS CONDITIONS AND INCIDENTS <i>(Continued)</i>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> 01 <input type="checkbox"/> J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION </div> <div style="width: 30%;"> 02 <input type="checkbox"/> OBSERVED (DATE: _____) </div> <div style="width: 30%;"> <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> 01 <input type="checkbox"/> K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION <i>(Include name(s) of species)</i> </div> <div style="width: 30%;"> 02 <input type="checkbox"/> OBSERVED (DATE: _____) </div> <div style="width: 30%;"> <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> 01 <input type="checkbox"/> L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION </div> <div style="width: 30%;"> 02 <input type="checkbox"/> OBSERVED (DATE: _____) </div> <div style="width: 30%;"> <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> 01 <input checked="" type="checkbox"/> M. UNSTABLE CONTAINMENT OF WASTES <i>(Spills/runoff/standing liquids/leaking drums)</i> 03 POPULATION POTENTIALLY AFFECTED: _____ <i>Sludge wastes dumped on site.</i> </div> <div style="width: 30%;"> 02 <input checked="" type="checkbox"/> OBSERVED (DATE: <i>8/10/82</i>) </div> <div style="width: 30%;"> <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED 04 NARRATIVE DESCRIPTION </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> 01 <input type="checkbox"/> N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION </div> <div style="width: 30%;"> 02 <input type="checkbox"/> OBSERVED (DATE: _____) </div> <div style="width: 30%;"> <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> 01 <input type="checkbox"/> O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION </div> <div style="width: 30%;"> 02 <input type="checkbox"/> OBSERVED (DATE: _____) </div> <div style="width: 30%;"> <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> 01 <input checked="" type="checkbox"/> P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION <i>Sludge with leachable lead of 11 mg/l.</i> </div> <div style="width: 30%;"> 02 <input checked="" type="checkbox"/> OBSERVED (DATE: <i>8/10/82</i>) </div> <div style="width: 30%;"> <input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED </div> </div>		
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS		
III. TOTAL POPULATION POTENTIALLY AFFECTED: _____		
IV. COMMENTS <i>This site was supposed to accept only clean fill but accepted barrels, dust (industrial waste), sludge, refuse, etc.</i>		
V. SOURCES OF INFORMATION <i>(Cite specific references, e. g., state files, sample analysis, reports)</i> <i>ESBH files.</i>		



**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT**
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IN D980500557

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ~ 30 04 NARRATIVE DESCRIPTION

Leaching into groundwater possible

01 ☐ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 20 04 NARRATIVE DESCRIPTION
(Acres)

Leaching into soil likely.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 30 04 NARRATIVE DESCRIPTION

Leaching into groundwater possible (8 known residential wells in the area).

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

DRAFT

NOV 06 1990

CERCLA IDENTIFICATION NUMBER

STATE

IN

SITE NUMBER

D980500557

SITE LOCATION

SITE NAME: Legal, common or descriptive name of site

Site #73 a.k.a. Roland Dump

STREET ADDRESS, ROUTE or SPECIFIC LOCATION IDENTIFIER

East of Industrial Hwy and Chicago Ave. intersection

CITY

Gary

STATE

IN

ZIP CODE

46406

TELEPHONE

1 1

COORDINATES: LATITUDE and LONGITUDE

Lat: 41°37'45" Long: 87°24'45"

TOWNSHIP, RANGE, and SECTION

OWNER/OPERATOR IDENTIFICATION

OWNER

Cliff Roland

OPERATOR

Industrial Materials, Inc

OWNER ADDRESS

P.O. Box 635

OPERATOR ADDRESS

P.O. Box 635

CITY

East Chicago

CITY

East Chicago

STATE

IN

ZIP CODE

46312

TELEPHONE

1 1

STATE

IN

ZIP CODE

46312

TELEPHONE

1 1

TYPE OF OWNERSHIP

- ☒ PRIVATE
☐ FEDERAL: Agency name _____
☐ STATE
☐ COUNTY
☐ MUNICIPAL
☐ OTHER: _____
☐ NOT SPECIFIED

OWNER/OPERATOR NOTIFICATION ON FILE

- ☒ NONE
☐ CERCLA 103 C, UNCONTROLLED WASTE SITE
DATE: _____
☐ RCRA 3001
DATE: _____

SITE STATUS

- ☒ ACTIVE
☐ INACTIVE
☐ UNKNOWN

YEARS OF OPERATION

BEGINNING YEAR: ~1980ENDING YEAR: present☐ UNKNOWN

APPROXIMATE SIZE OF SITE

23 acres

SITE EVALUATION

AGENCY / ORGANIZATION

U.S. EPA, E&E/FIT

INVESTIGATOR

Jim Broderick

CONTACT

Colleen Hart, U.S. EPA

ADDRESS

111 W. Jackson Blvd, Chicago, IL 60604

TELEPHONE

(312) 886-3009

DATE

06/04/91



REFERENCE 134

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Preliminary Assessment Summary

Site Name: Roland Dump (Site #73)
Address: East of U.S. 12 & Chicago Ave. Intersection
County: Lake
I.D. Number: IND980500557
Priority Assessment: Medium
Assessment Justification: Industrial wastes were dumped illegally at this site. Contamination of shallow groundwater in the area by this site as well as other dumps in the area seems likely.
Recommendation: Site inspection recommended with groundwater sampling if possible.

DKAFI

NOV 06 1990

REFERENCE 134

Site Name: Roland Denny

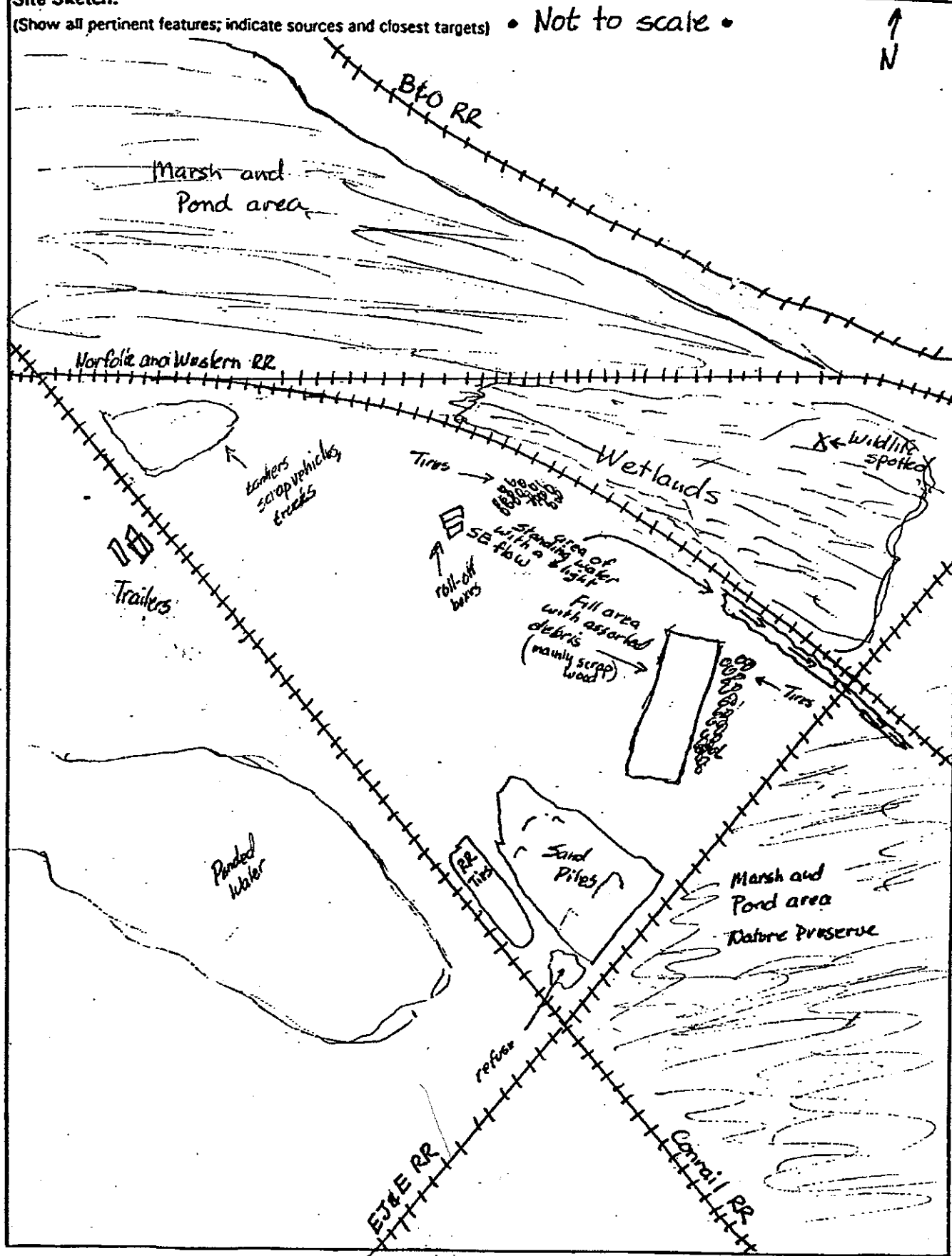
06/04/91

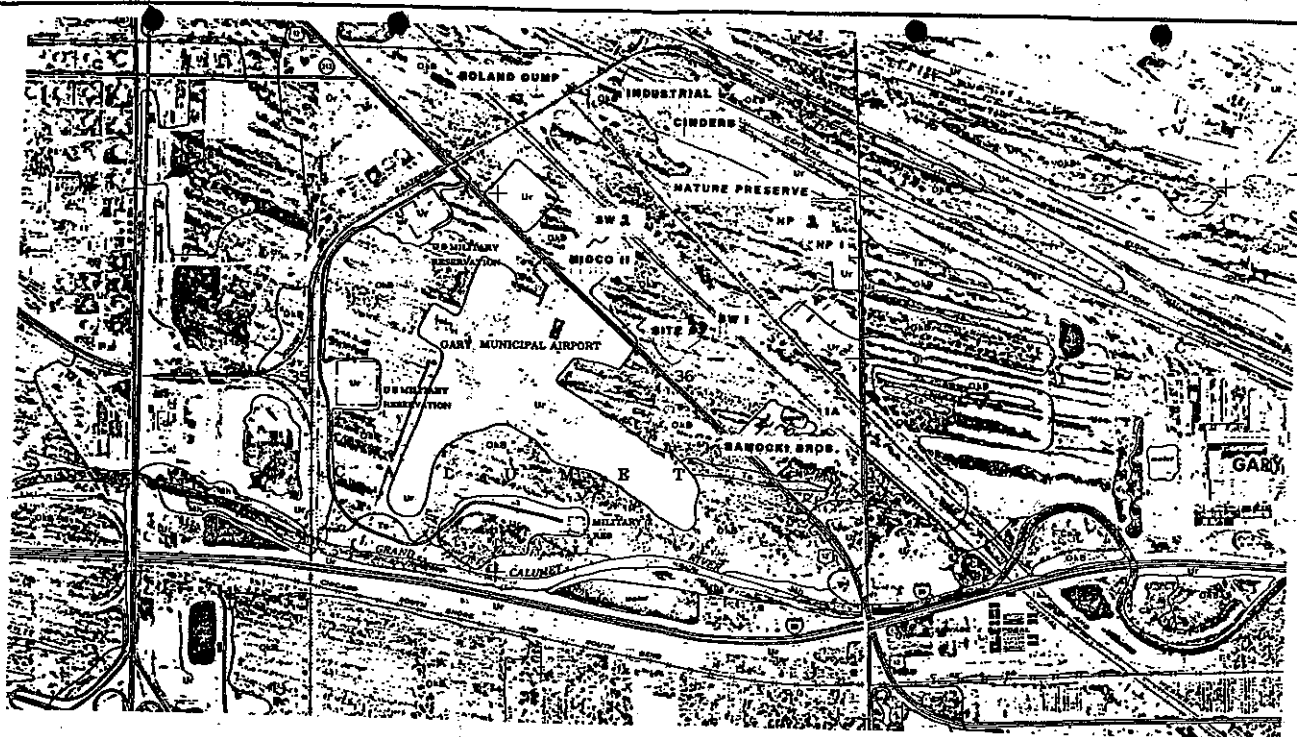
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GENERAL INFORMATION (continued)

Site Sketch:

(Show all pertinent features; indicate sources and closest targets) • Not to scale •





ecology and environment, inc.
111 WEST JACKSON BOULEVARD
CHICAGO, IL 60604

ROLAND DUMP and ADJACENT SITES
LAKE COUNTY, GARY IN. SAMPLE LOCATIONS

DR BY: V.S.B.S	DL BY:	APP BY:
SCALE:	DATE: 5-9-86	REV:
PROJECT NO: TDD NO 8307-04C		SHEET 3 OF 3

REFERENCE 134

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REFERENCE 134
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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INDIANAPOLIS

OFFICE MEMORANDUM

DATE: December 23, 1991

TO: File

THRU:

FROM: John P. Naddy *JPN*
Site Investigation SectionSUBJECT: Roland Dump
Gary, Indiana
IND980500557

Staff of the Office of Environmental Response, Site Investigation Section, have reviewed the Focused Site Inspection Prioritization Review (FSIPR) of the above mentioned site. The State concurs with the findings of the Ecology & Environment report, but has the following comment:

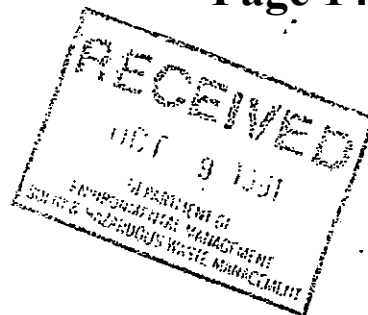
The sensitive environments need to be confirmed by the U.S. Fish & Wildlife Service or by the Indiana Department of Natural Resources and should be documented as such.

The State recommends that the site receive a low priority site inspection due to the low population and the industrial area.

**ecology and environment, inc.**

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

International Specialists in the Environment



M E M O R A N D U M

TO: Colleen Hart, U.S. EPA
FROM: Jim Broderick, FIT
DATE: September 30, 1991
SUBJECT: Roland Dump, AKA Site #73, Gary, Indiana
IND980500557 F05-9104-107/FIN0168PA

FIT conducted an off-site reconnaissance of the Roland Dump site on May 20, 1991. At that time, FIT observed that two employees work on-site. The site is not fenced.

Based upon the off-site reconnaissance and file information, FIT recommends a medium priority for the inspection of the Roland Dump site because previous sampling revealed the presence of various heavy metals and polyaromatic hydrocarbons on-site. In addition, there is a potential for hazardous substances to migrate from the site to adjacent wetlands.

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